IN THE CLAIMS:

1. (CURRENTLY AMENDED) A device for measuring characteristics of ~~toolings~~ a gap between a chuck and a roll in a seamer, said device comprising:

a radiation source ~~adapted to generate~~ capable of generating radiation;

~~means~~ a diverter for diverting said radiation so as to pass through a profile in the ~~toolings~~ gap between a chuck and a roll in a seamer; and

a two-dimensional array detector ~~adapted to receive~~ capable of receiving said radiation that passed through the profile[[;]],

whereby the characteristics of ~~toolings~~ the profile of the gap are processed from the detected radiation that passes through the profile.

2. (CANCELLED)

3. (CURRENTLY AMENDED) The device as claimed in Claim 1, wherein said radiation is selected from [[a]] the group consisting of electromagnetic radiation, light radiation, [[or]] and laser light.

4. (ORIGINAL) The device as claimed in Claim 1, further comprising at least one beam expander so as to generate a coherent beam.

5. (ORIGINAL) The device as claimed in Claim 4, wherein said at least one beam expander is comprised of two lenses that expand the beam with a minimal dissipation.

6. (CURRENTLY AMENDED) The device as claimed in Claim 1, wherein said ~~means for diverting said radiation~~ diverter is selected from [[a]] the group consisting of ~~diverters such as~~ a prism, mirror, lens, [[or]] and fiber-optic.

7. (CURRENTLY AMENDED) The device as claimed in Claim 1, wherein said ~~means for diverting said radiation~~ diverter is a prism.

8. (CURRENTLY AMENDED) The device as claimed in Claim 7, wherein a first prism diverts the radiation towards the profile and wherein ~~said~~ a second prism diverts the radiation that passes through the profile.

9. (CURRENTLY AMENDED) The device as claimed in Claim 8, wherein said two-dimensional array detector and said source are positioned side by side and said first prism and said second prism are positioned in a predetermined distance and opposite to one another so as to form a bypass of said radiation.

10. (CANCELLED)

11. (CURRENTLY AMENDED) The device as claimed in Claim 1, wherein said two-dimensional array detector is a CCD camera.

12. (CURRENTLY AMENDED) The device as claimed in Claim 1, wherein the characteristics of ~~toolings~~ the gap are a distance between ~~the toolings~~ the chuck and the roll.

13. (CURRENTLY AMENDED) The device as claimed in Claim 1, wherein the characteristics of ~~toolings~~ the gap are the clearance between ~~the toolings~~ the chuck and the roll.

14. (CURRENTLY AMENDED) A method for measuring characteristics of ~~toolings~~ a gap between a chuck and a roll in a seamer comprising:

providing a radiation source ~~adapted to generate~~ capable of generating radiation;

providing a first ~~means~~ diverter for diverting said radiation so as to pass through a profile in ~~the toolings~~ the gap;

providing a second ~~means~~ diverter for diverting said radiation that passes through the profile; and

directing the diverted radiation to a two-dimensional array detector[[;]]₁

whereby the characteristics of the profile [[is]] are processed from the detected radiation that passes through the profile.

15. (CURRENTLY AMENDED) The method as claimed in Claim 14, wherein said radiation is selected from [[a]] the group consisting of electromagnetic radiation, light radiation, [[or]] and laser light.

16. [CANCELLED]

17. (CURRENTLY AMENDED) The method as claimed in Claim 14, wherein said first ~~means for diverting~~ diverter and said second ~~means for diverting said radiation~~ diverter are selected from [[a]] the group ~~comprising diverters such as~~ consisting of a prism, mirror, lens, [[or]] and fiber-optic.